



A.D. 1873, 23rd JANUARY. N^o 266.

Treating Sewage.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Frederick Jacobsen at the Office of the Commissioners of Patents, with his Petition, on the 23rd January 1873.

I, FREDERICK JACOBSEN, of Redfern House, in the County of
5 Edinburgh, do hereby declare the nature of the said Invention for
“IMPROVEMENTS IN TREATING SEWAGE FOR THE PURPOSE OF MAKING MANURE AND
PURIFYING SEWAGE,” to be as follows:—

Hitherto sewage has for the above mentioned purposes generally been
treated with sulphuric acid diluted with ordinary clean water in con-
10 junction with phosphate of alumina, but I treat it differently. I treat
the sewage with phosphate of lime and diluted sulphuric acid, diluting
such acid with the liquid sewage itself. This saves the expense of clean
water, and increases the deposit of amoniacal or nitrogenous matter by
extracting and retaining so much of that substance as is in suspension
15 or solution in the fluid of the sewage. To effect this I dissolve coprolites
or other phosphate of lime in the ordinary way, and mix this material
along with diluted sulphuric acid with the sewage to be treated, but
diluting the sulphuric acid employed with the fluid of the sewage instead

Jacobsen's Improvements in Treating Sewage.

of with clean water. This produces a superphosphate which is then mixed with the more solid sewage deposit obtained by subjecting the sewage to any of the known methods used for producing subsidence and decantation. This mixture forms a valuable manure or fertilizer and the fluid which is drawn or run off is much purified by the operation.

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